

Title (en)
Expansion valve

Title (de)
Expansionsventil

Title (fr)
Vanne de détente

Publication
EP 0831283 A1 19980325 (EN)

Application
EP 97115098 A 19970901

Priority
JP 24651396 A 19960918

Abstract (en)
The present invention provides an expansion valve having a hole on the outer wall of the housing which is sealed with a plug body by an electrical resistance weld, and including a structure to prevent corrosion of the peripheral area of the welded portion on the outer wall of the housing. A heat sensing gas is introduced to a pressure housing via a hole 15 formed on the outer wall 14 of the pressure housing positioned to sense the temperature of the gas-phase refrigerant passing the expansion valve. A plug body 16 formed by cutting a metallic material seals said hole keeping the state where the gas is filled inside the pressure housing. Then the peripheral of the projection weld portion 17 is covered by a corrosion inhibitor 21 so as to prevent water from gathering thereto. The seal of said hole 15 is secured by the projection weld of a line contact portion 162a formed on the tapered surface 162 of the plug body by a cutting process in the circumference direction. <IMAGE>

IPC 1-7
F25B 41/06; G05D 23/12

IPC 8 full level
B23K 11/00 (2006.01); **B23K 11/14** (2006.01); **F25B 41/06** (2006.01)

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Citation (applicant)
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Citation (search report)

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